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Websites

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Mr. Jagadeesha K B

Assistant Professor in ME

Faculty

Faculty of Engineering and Technology

School / Program

Faculty of Engineering and Technology/

B.Tech. in Mechanical Engineering

Faculty Introduction

Mr. Jagadeesha K.B. completed his M.E in Thermal Science & Engineering from UVCE, Bangalore, in 2012 and is currently working as an Assistant Professor in the Department of Mechanical Engineering at GM University, Davanagere. His research interests lie in the areas of Microchannel Heat transfer, Green Hydrogen Energy, and Renewable Energy Resources and pursuing doctoral research in the field of bio diesel.

Qualifications

Ph.D. (Pursuing)

Visvesvaraya Technological University (VTU), Belagavi.

M. Tech. (Thermal Science and Engineering)

UVCE, Bangalore, Karnataka, 2012

BE (ME)

AMCEC, Bangalore, 2008.

Experience

Teaching

- 7 Years 7 Months at AMCEC, Bangalore.
- 1 Year 11 Months at BTLIT&M, Bangalore.

Industry



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7 months at Nanndi Toyota, Bangalore.

3 Years 11 Months at SV Auto Engineering Works, Bangalore.

Research

Research interests lie in the field of Combustion and Emission Studies in DI Diesel engine with non-edible biodiesel using EGR & SCR.

Training Program Attended

- Completed online **Mastering ANSYS CFD: From Zero to Expert** in 2026 from Udemy.

Research Interest

- Microchannel Heat Transfer.
- Green Hydrogen Energy.
- Solar Energy Technologies.
- Bio-Diesel.

Awards & Achievements

- GATE 2010 Qualified (ME)– All India Rank: 3,698.

Publication / Patents

- Patent: Published Patent (2025) – Inventor of a high-performance polymer matrix nano-composite technology; Patent Office Journal No. 22/2025, dated 30 May 2025
- **International Conference Papers:**
 - Bommanna K, Santhosh Ujjinappa, Jagadeesha K B' Role of Nano clay in Mitigating Moisture-Induced Degradation of Vinyl Ester-Based Glass Fiber Nanocomposites in the International Conference on Advances in Mechanical Engineering (i-NAME 2026) Organized by the Department of Mechanical Engineering, JNN College of Engineering, Shivamogga, Karnataka, India during 25th of June 2026.
 - Santhosh Ujjinappa, L. K. Sreepathi & Jagadeesha K B. 'Study of Strength Properties and Combustion Characteristics of Blends of Castor Seed Shell and Coffee Husk Fuel Briquettes.' International Journal of Engineering Research and Application (IJERA), NAME 2018, JNNCE Shivamogga, 20–21 April 2018.



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- **International Journal Papers:**

- Santhosh Ujjinappa, Maruthi Prashanth B H, Jagadeesha K B, Ravi Kumar B N, Sandeepkumar Gowda & Mahaboobali Nadaf. 'Evaluation of Physical Properties and Fuel Characteristics of Briquette Blends from Jatropha Seed Shell, Ground Nut Husk, and Paper Waste for Sustainable Waste Valorization.' Engineering Research Express, 8 (2026) 055502. DOI: Received 24 Nov 2025; Revised 11 Feb 2026; Accepted 23 Feb 2026; Published 05 Mar 2026. (IOP Publishing – SCOPUS Indexed)
- Jagadeesha K B, Sudheer D Kulkarni, S. Subramanian, C. K. Umesh, Jagadeesha T & Amith Kumar Gajakosh. 'Experimental and Numerical Study of Aluminium Microchannel Heatsink.' Educational Administration: Theory and Practice, 30(3), pp. 01–08 (2024). DOI: 10.53555/kuey.v30i3.7041.
- H. Sushma & Jagadeesha K B. 'CFD Modeling of the In-Cylinder Flow in Direct-Injection Diesel Engine.' International Journal of Scientific and Research Publications (IJSRP), Vol. 3, Issue 12, December 2013. ISSN: 2250-3153.

- **Books/Book chapters:**

- Jagadeesha K B et al. (co-authored with J. Ashok Kumar, Mrityunjay Swamy K M, Manjunatha C & Kandru Lalitha Babu). 'Hydraulic and Pneumatic Systems: Design and Applications in Industry.' Chapter in Innovations and Advances in Mechanical Engineering: From Materials to Modern Applications, Vol. 1, pp. 27–38, September 2024. ISBN: 978-81-969115-3-9. Published by Research Communications.
- Jagadeesha K B et al. (co-authored with K. Venkateswarulu, Niyaz Ahamed M B & Raffi Mohammed). 'HVAC Systems Design and Energy Efficiency in Buildings.'



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Chapter in Innovations and Advances in Mechanical Engineering: From Materials to Modern Applications, Vol. 1, pp. 66–83, September 2024. ISBN: 978-81-969115-3-9. Published by Research Communications.

Professional Membership

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Awards & Recognitions

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Administrative Responsibilities

Department Level

- Proctor/Mentor for 1st Year ME Students.
- Class Co-Ordinator for 5th Sem ED Students.

Workshops / FDPs / Seminars Attended

- 5 Day Online ATAL FDP on Advanced Trends in Aerospace Engineering: Quality, Smart Materials, Sustainable Avionics & Additive Manufacturing from 18-23 August 2025, organized by AMC Engineering College, Bangalore.
- 5 Day Online ATAL FDP on Green Hydrogen Generation: Opportunities and Challenges in India from 09-14 Dec 2024, organized by Shri Mata Vaishno Devi University Jammu & Kashmir.
- 5 Day Offline Building a Culture of Cyber Security: Train Your Employees to Be Safe Online from 11-16 Nov 2024, organized by Shri GM University Davanagere.
- 5 Day Offline Building a Culture of Cyber Security: Train Your Employees to Be Safe Online from 11-16 Nov 2024, organized by Shri GM University Davanagere.
- 5 Day offline STTP on Modern Control Perspectives in Solid and Fluid Mechanics (MCPSFM) organized by IIT Madras.

Workshops / FDPs / Seminars Organized

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Projects Guided

UG Projects



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- Akshaya B, Madhushree R, Poojitha G R, Varsha C N (2026). *Experimental and Numerical Analysis of UAV Components cooling system using Nanofluid.*
- Chandana G Tharun Kumar S, Arun Patil A Harshith L (2025). *Development of a Custom Electric Radio-Controlled Aircraft for Aeromodelling Applications.*
- Chaitra Jaisree S V, Sony Sahani Priyanka M Adin (2025). *Design and Analysis of Aircraft Wing with Variable CANT Angles.*
- Hemanth Mohammed Faizal, Owaize Ahmed, Sweekruth J L (2022). *Autonomous Dispatch Robot Path Remembering and Obstacle Avoiding.*
- Abdur Razaq Mulla, Hashir Daniyaal R S, Pratish Paul (2022). *Retrofit Autonomous Parking System.*

Funded Projects / Grants Received

- **Solar-Based Stirling Engine**
Funding Agency: KSCS&T
Role: Supervisor
Year:2013
Amount Sanctioned: Rupees 6,500.

Any Other Contributions